

# MASS MEMORIES OF INTEREST

# **IME 86 S**

**the perfected  
electronic  
desk-top computer**





remote control key, for operating peripheral accessories

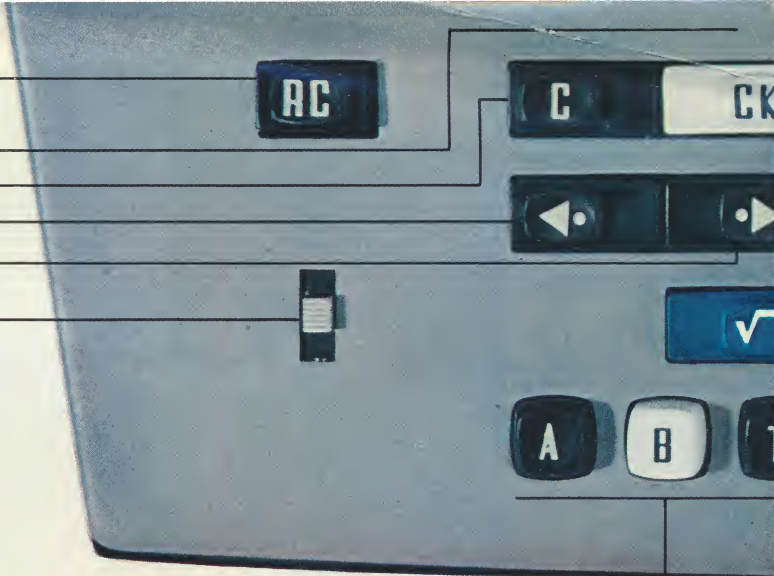
keyboard correction

clearance of all operational registers

decimal point shift-left

decimal point shift-right

operation item count and automatic summing of multipliers



reading keys for operational regi

sq

## Specification

### Registers

three operational and four auxiliary registers

### Capacity

16 digits in all registers

### Data setting

reduced keyboard with electronic lock

### Decimal system

fixed decimal point position in both operational and auxiliary registers, but with unique facility that this position can be changed at well at any time - even in the middle of a calculation

### Clearance

automatic clearing of the operational registers when starting a new operation. The auxiliary registers can be cleared separately by means of individual keys.

### Automatic re-entry

figures shown on the display - from any of the registers - are automatically available for further calculation without the need for re-entry.

### Checks

overflow signal in all operations. Indication of the negative sign in all registers. Visual check of all factors in a calculation operation.

### Algebraic logic

storage of the sign and algebraically correct values in all registers. Every number is handled and displayed with its correct sign; the sign in a result can be inverted.

## Special features

Visual check of numbers being entered and of the decimal point position.

Ability to correct any data entered.

Addition and subtraction in the operational registers or directly into the auxiliary registers.

Multiplication with automatic round-off to present number of decimal places.

Division with visual check of the remainder.

Raising to power of whole and decimal numbers with continuous check of the power index.

Square root of whole and decimal numbers with visual check of the remainder.

Algebraically correct accumulation of results (sums, products, quotients, powers, square roots and results of chain operations) in all the auxiliary registers, with immediate reading of intermediate values whenever necessary.

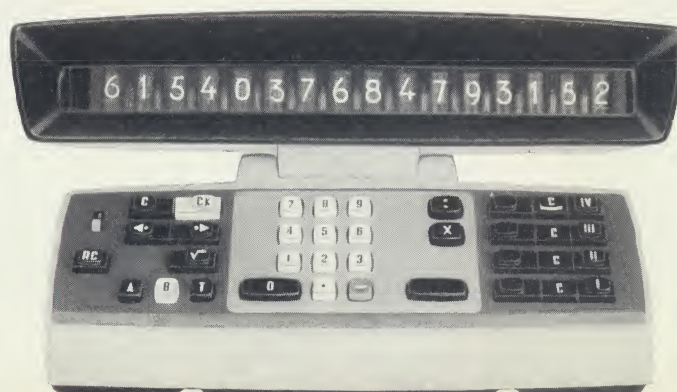
Automatic accumulation of multiplicands.

Operation item count and arithmetical average.

Multiplications and divisions with constant factor.

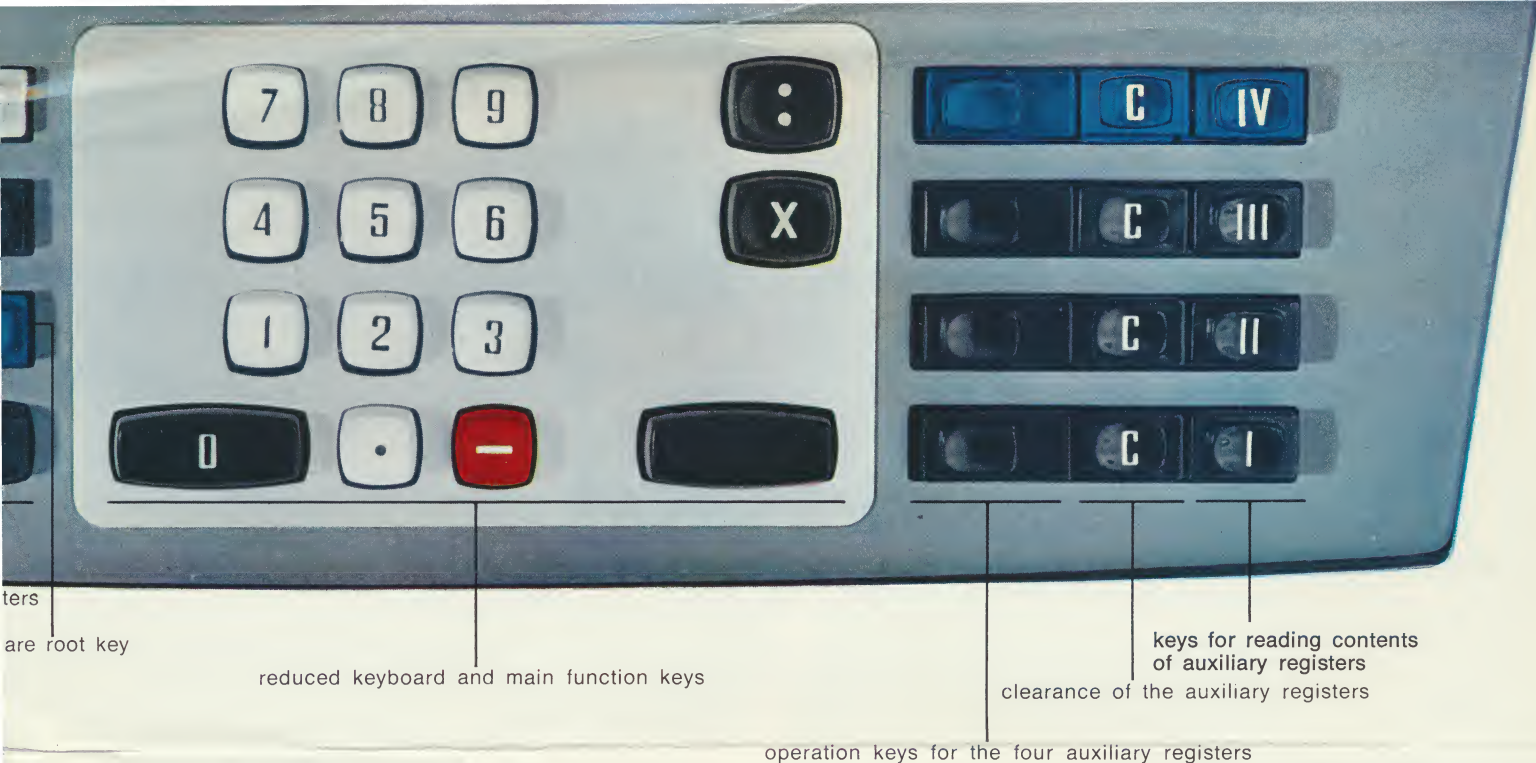
Automatic addition of the repeated items without re-entry.

Chain operations with or without reading of intermediate results.



**IME 86s is supplied ready for direct connection, through a 50-pole rear-mounted connector to satellite keyboards, programmers, and other input and output accessories.**





## Commercial calculation

25 items at \$ 1.45 each		36.25
120 items at \$ 1.25 each	150.00	
less 7% quantity discount	10.50	139.50
		175.75
less 15% special discount		26.36
		149.39
plus 4% duty		5.98
		155.37

decimal point in second position

25 **X** 1,45 **I** **↑** 36,25      120 **X** 1,25 **II** **↑** 150,00      0,07 **□** **X** **II** **II** **↑** -10,50

**II** **↑** 139,50      **I** **↑** 175,75      0,15 **□** **X** **I** **I** **↑** -26,36      **I** **↑** 149,39

0,04 **X** **I** **I** **↑** 5,98      **I** **↑** 155,37

## Financial calculation

Repayment of a loan of £ 1,560,000 in 6 annual instalments with a annual interest of 6%

decimal point in 7th position

$$R = 1,560,000 \frac{0.05}{1 - (1 + 0.05)^{-6}} = 307347.13$$

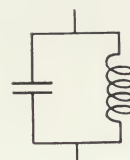
1 **□** 0,05 **□** **↑** 1,05 **X** **X** **X** **X** **X** **X** **I** **↑** 1,340095

1 **:** **I** **↑** 0,7462153 **□** 1 **□** **↑** 0,2537847 **II**

1.560.000 **X** 0,05 **□** **↑** 78.000 **:** **II** **↑** 307347,1332196

## Technical and scientific calculation

decimal point in third position



Resonant frequency of a circuit

$$L = 20 \mu\text{H} \quad C = 120 \text{ pF}$$

$$f = \frac{1}{2\pi\sqrt{LC}} = \frac{10^9}{2\pi\sqrt{20 \times 120}} \text{ Hz}$$

20 **X** 120 **√** **X** 2 **X** 3,14 **I**      1.000.000.000 **:** **I** **↑** 3250436,371



# Technical data

## Weight:

kg 14

## Size:

cm 47 x cm 44.5 x cm 15

## Display:

Cold cathods numeral indicators with extra-large digits (height 14 mm.)

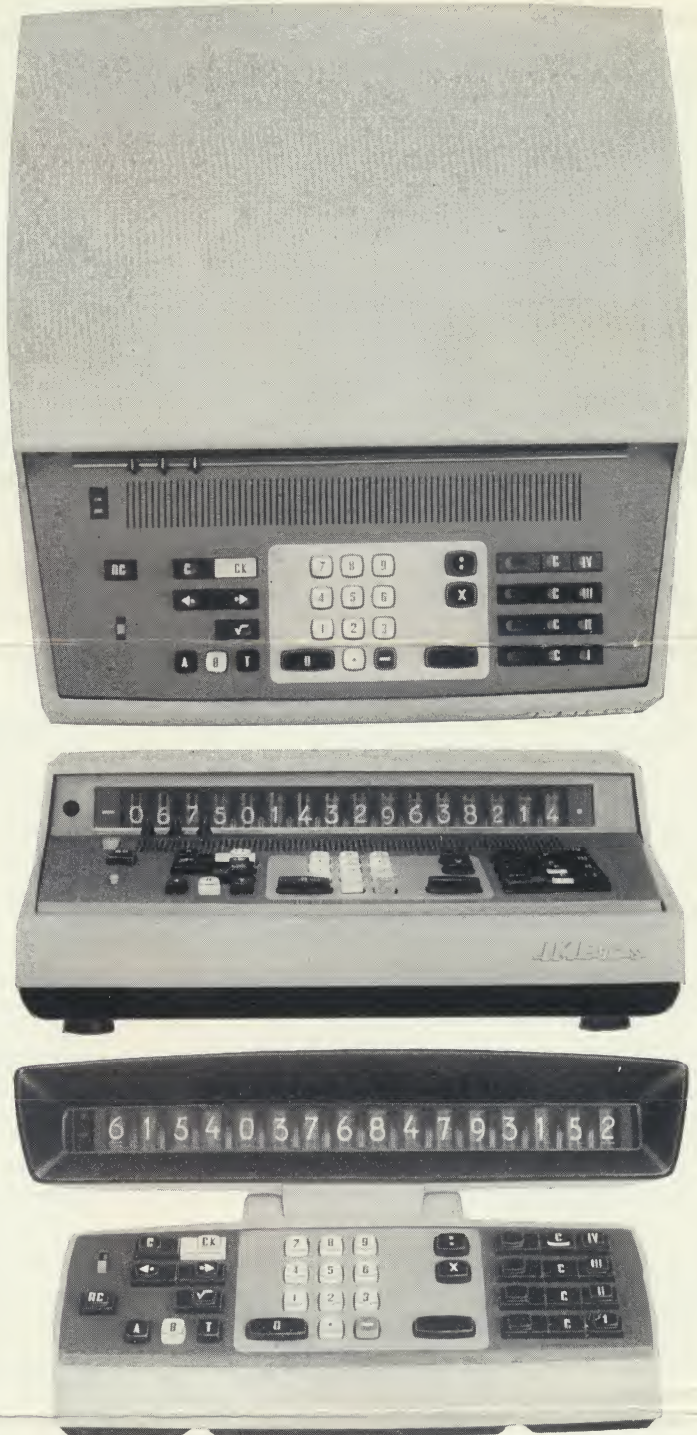
## Speed:

The average time for simple calculation operations is:  
0.2 seconds - for an elementary addition: 2.5 milliseconds.

## Electrical load

50 W

**IME 86 s relies on semiconductors of the highest reliability and is produced on strictly modular principles. Its constituent elements are inter-connected through multipolar connectors and can therefore be easily and quickly serviced.**



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